

DIGITAL AUDIO-VIDEO DIFFERENTIAL DELAY AND CHANNEL ANALYZER
ABSTRACT OF THE DISCLOSURE

A testing device and method for a digital video processing system is coupleable to an input and output of the processing system, and inserts video and audio marking information into the input to test system operation. The test device inserts a video marker and an audio marker data code for a single audio channel, preferably in the same digital input frame. The device then monitors the same audio channel and also all the other audio channels at the output, while monitoring for the video marker. The device indicates the occurrence and timing of results that appear at the outputs, the relative timing of the output audio mark(s) versus the video mark, an alarm in the event that an output mark is not found or found on an unexpected channel, etc. The test device successively exercises the audio and video portions of the processing system while also providing numeric timing measurements that are useful for proper setup and operation.